



Docket No.: CHNT-0011P1

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of

Arthur M. BROWN, Eckhard FICKER and Barbara A. WIBLE : Group Art Unit: 1645

Serial No.: 10/635,010 : Examiner: Unassigned

Filed: August 6, 2003 : Customer No.: 34610

For: HIGH THROUGHPUT ASSAY SYSTEMS AND METHODS FOR IDENTIFYING  
AGENTS THAT ALTER SURFACE EXPRESSION OF INTEGRAL MEMBRANE  
PROTEINS

**INFORMATION DISCLOSURE STATEMENT**

U.S. Patent and Trademark Office  
2011 South Clark Place  
Customer Window  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, Virginia 22202

Sir:

Pursuant to 37 C.F.R. 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the indicated date. Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, that information cited in the statement is considered to be and/or is material to patentability, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that was cited or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. §120. 1138 OG 37, 38 (May 19, 1992).

X 1. This Information Disclosure Statement is being filed (i) within three months of the U.S. filing date of a U.S. application other than a CPA continued prosecution application under §1.53(d) OR (ii) within three months of the date of entry of the national stage as set forth in §1.491 in an international application OR (iii) before the mailing date of a first Office Action on the merits. No certification or fee is required. 37 C.F.R. §1.97(b).

— 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection OR Notice of Allowance OR an action that otherwise closes prosecution in the application. 37 C.F.R. §1.97(c).

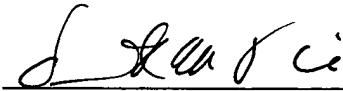
— a. I hereby state that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1).

- b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(2).
- c. Attached is our check no. \_\_\_\_\_ in the amount of \$180.00 in payment of the fee under 37 C.F.R. 1.17(p). Please credit or debit Deposit Account No. 16-0607 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
- 3. This Information Disclosure Statement is being filed after the mailing date of a Final Rejection OR Notice of Allowance OR an action that otherwise closes prosecution in the application, but on or before payment of the Issue Fee. Attached is our check no. \_\_\_\_\_ in the amount of \$180.00 in payment of the fee under 37 C.F.R. 1.17(p). Please credit or debit Deposit Account No. 16-0607 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached. 37 C.F.R. §1.97(d).
- a. I hereby state that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1).
- b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(2).

X 4. Copies of the references were cited by or submitted to the Office in parent application No. 10/619,184, filed July 15, 2003, which is relied upon for an earlier filing date under 35 U.S.C. §120. Thus, copies of these references are not attached. 37 C.F.R. §1.98(d).

X 5. To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,  
FLESHNER & KIM, LLP



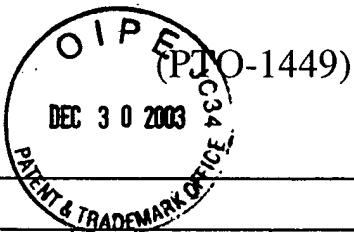
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**Date: December 30, 2003**

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**Please direct all correspondence to Customer Number 34610**

LIST OF PRIOR ART CITED BY  
APPLICANT



ATTY. DOCKET NO.  
**CHNT-0011P1**

APPLN. SERIAL NO.  
**10/635,010**

APPLICANT(S)  
**Arthur M. BROWN, Eckhard FICKER and  
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FILING DATE  
**August 6, 2003**

GROUP  
**1645**

**U.S. PATENT DOCUMENTS**

EXAMINER'S INITIALS	*PATENT NO.	*ISSUE DATE	*INVENTOR NAME	CLASS	SUBCLASS	FILING DATE
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**U.S. PATENT APPLICATION PUBLICATIONS**

	*PATENT APPLN. NO.	*PUB. DATE	*APPLICANT	CLASS	SUBCLASS	

**U.S. PATENT APPLICATIONS**

	*APPLN. NO.	*FILING DATE	*INVENTOR	CLASS	SUBCLASS	

**FOREIGN PATENT DOCUMENTS**

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						Yes No
	WO 91/01732	02/21/91	WIPO			
	WO 98/18368	05/07/98	WIPO			
	0 243 903 B1	11/04/87	European Patent Office			Claims Only

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	C. Funck-Brentano, "Rate-dependence of class III actions in the heart," Fundam. Clin. Pharmacol., 1993, Vol. 7, pp. 51-59.
	Weimin Tang et al., "Development and Evaluation of High Throughput Functional Assay Methods for hERG Potassium Channel, Journ. of Biomolecular Screening, Vol. 6, No. 5, 2001, pp. 325-331.
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EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

LIST OF PRIOR ART CITED BY  
APPLICANT  
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						Yes
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**OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)**

	Wolfgang Schuhmann et al., "Immobilization of Enzymes on Langmuir-Blodgett Films via a Membrane-Bound Receptor. Possible Applications for Amperometric Biosensors," <i>Adv. Mater.</i> , Vol. 3, No. 7/8, 1991, pp. 388-391.
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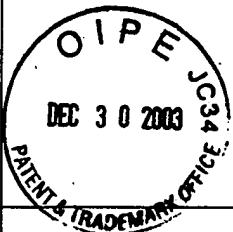
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	Tsuneaki Sadanaga, MD et al., "Clinical evaluation of the use-dependent QRS prolongation and the reverse use-dependent QT prolongation of class I and class III antiarrhythmic agents and their value in predicting efficacy," Amer. Heart Journal, Vol. 126, No. 1, July 1993, pp. 114-121.
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	Kingman Ng et al., "Engineering Protein-Lipid Interactions: Targeting of Histidine-Tagged Proteins to Metal-Chelating Lipid Monolayers," Langmuir, Vol. 11, 1995, pp. 4048-4055.
	Wolfgang Frey et al., "Two-dimensional protein crystallization via metal-ion coordination by naturally occurring surface histidines," Proc. Natl. Acad. Sci. USA, Vol. 93, No. 10, May 14, 1996, pp. 4937-4941.
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